FE133

Diagram No. 1203-3

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

☆ U.S. GOV. PRINTING OFFICE: 1976-669-441

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as; FE No.3 1955

FENO.3 1955

FE-133

Diag. Cht. No. 1203-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. CS-265 Office No.F.E.No. 3(1955

LOCALITY

State Maine

General locality Approaches to Penobscot Bay

Locality Foster & Bay Ledges

194 55

CHIEF OF PARTY

J. C. Ellerbe

LIBRARY & ARCHIVES

DATE September 14, 1955

B-1870-1 (1)

SHIPS WAINWRIGHT & HILGARD
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Post Office Box 659 Southwest Harbor, Maine

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

16 August 1955

EXPRESS ADDRESS:

To:

Director

U. S. Coast and Geodetic Survey Department of Commerce Bldg.,

Washington 25. D. C.

Subject:

Special Report, Project CS-265 WD, Investigation of Bay

and Foster Ledges.

Ref .:

Supplemental Instructions, Project CS-265 WD, dated 27 May

1955 (22/MEK, S-2-WA & HI)

On 25 July 1955, the investigation of subject Ledges, as specified / in paragraph 2 of reference, was accomplished.

Fester Ledge was visited first. It was found, upon arrival, that it would be very impractical to attempt wire dragging due to the number of lebster traps set in the area. Investigation by development and drift sounding therefore was attempted.

First the shoal was located and a marker buoy set thereon. This was easily accomplished since at low water in a calm sea, the bottom is plainly visible. After placing the buoy, very closely spaced lines were run on ranges, and the least depth obtained was recorded as the soundings became progressively shoaler. The marker buoy was used as a reference point in the development. After the least depth was determined by fathometer in this manner, the launch was allowed to drift over the shoal a number of times, soundings being taken constantly with the fathometer and hand lead. The least depth obtained on several of the drift passes was recorded as a detached sounding.

It will be noted that some differences appear in the fathometer and hand lead soundings. The bottom appeared to be rough boulders, with many small, sharp pinnacles projecting from one to two feet above the general ground contour. Some kelp was evident.

A least depth of 5.8 feet was obtained, checking very closely the presently charted sounding of 6-feet. This hand-lead sounding was closely supported by a 6.1-foet sounding by fathometer.

It will be noted that the position of the shoal soundings on this ledge plot slightly to the North of the 6-foot shoal as plotted on Chart 322. It is not believed that the two positions are actually different, but that the discrepancies inherent in plotting 3-point fixes on a chart are responsible. No evidence of further extension of the shoal to the Southward was found in the investigation.

At Bay Ledge, a 12 hour investigation by skiff with the hand lead resulted in the location of the ledge and a sounding of 5.8 feet. Later, a marker buoy was planted on the shoal, which is of a very small extent, and a series of lines on ranges run across it with launch CS-171 and the fathometer. A least depth of 4.8 feet was found by this method, with deep water close by on all sides. 3 from H-3023(1913)WD not disproved and was carried forward to H-8168

This least depth was checked by wire drag methods. A small drag, 200 feet in length, was pulled by skiff and outboard over the shoal, which was still marked by the buoy. The center of the drag (#2 buoy) passed over the center of the shoal, the marker buoy being raised and dropped again as the drag passed. Three point fixes of #2 buoy were taken at the beginning and end of the drag strip; also three point fixes of the two boats at the end. The ledge was cleared at an effective depth of 4.5 feet.

Portland, Maine tides, furnished by the Washington office, were used in reducing soundings and computing effective depths of the drag. These tides were corrected by -20 min. and /0.3 foot at Bay Ledge and -20 min. and /0.2 foot at Foster Ledge. Lead line corrections were obtained by check as prescribed; a bar check was taken the same day to furnish fathometer corrections. All positions were plotted on chart No. 322, furnished by the Washington office.

John C. Ellerbe Commander, USC&GS Chief of Party

JCE/rog

FORM 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. Apr. 1950

TIDE NOTE FOR HYDROGRAPHIC SHEET

23 September 1955

Division of Charts:

R. H. Carstens

Plane of reference approved in volumes of manding mercuks for Wire drag records

HXDROGRADHOCX XHEEXX FE No. 3 1955

Locality Penobscot Bay Entrance, Maine

Chief of Party: J. C. Ellerbe in 1955
Plane of reference is mean low water, reading
3.6 ft. on tide staff at Portland
.19.0 ft. below B. M. 31 (1910)

Height of mean high water above plane of reference at the working grounds is 9.1 feet.

Condition of records satisfactory except as noted below:

and Currents.

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S. S. GOVERNMENT PRINTING OFFICE 877933

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. F.E. No. 3 (1955)

Records accompanying survey:	
Boat sheets; sounding vols2; w	ire drag vols;
bomb vols; graphic recorder rolls	. J ;
special reports, etc 1-Special report. & 1-0	Chart No. 322.
•••••••••••	•••••••
The following statistics will be submitted wit rapher's report on the sheet:	th the cartog-
Number of positions on sheet	• • • • •
Number of positions checked	
Number of positions revised	••••
Number of soundings revised (refers to depth only)	• • • • •
Number of soundings erroneously spaced	•••••
Number of signals erroneously plotted or transferred	• • • • •
Topographic details	Time
Junctions	Time
Verification of soundings from graphic record	Time
Verification by J.E. GEARHARTTotal time	.24. Date 9:6:55
Reviewed by	8 5-1-61 Date

FIELD EXAMINATION NO. 3, 1955

Maine, Approaches to Penobscot Bay, Foster Ledges and Bay Ledge

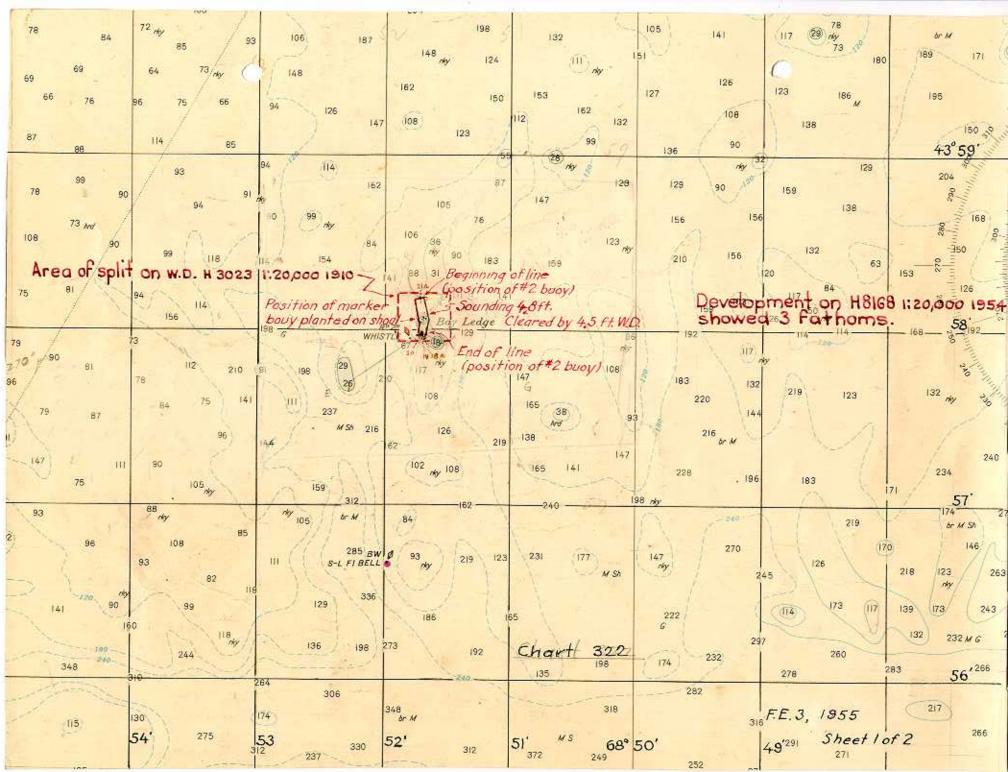
- 1. The field examination was made in compliance with Supplemental Instructions for Project CS-265, dated 27 May, 1955.
- 2. The purpose of the field examination is as follows:
 - a. To determine the present least depth over the charted 3 ft. at Bay Ledge in Lat. 43°58.05', Long. 63°51.70'.
 - b. To determine the present least depth over the charted 6 ft. at Foster Ledges in Lat. 43°52.08', Long. 68°56.70'.
- 3. The results of the field examination are as follows:
 - a. The 4.8-ft. sounding obtained by the field examination of Bay Ledge in Lat. 43°58.05', Long. 68°51.70', is considered not to disprove the reliability of the 3-ft. sounding found on H-3023 (1913) W.D.
 - The 3-ft. sounding which has been carried forward to H-8168 (1954), should be retained on the chart.
 - The 6-ft. sounding charted on Foster Ledges in Lat. 43°52.08', Long. 68°56.70', from H-3528 WD (1913) was adequately confirmed by the field examination. The sounding has been carried forward to H-8168 (1954) and should be retained on the chart.
- 4. The results of the field examination are shown on the accompanying 2 sections of chart 322.

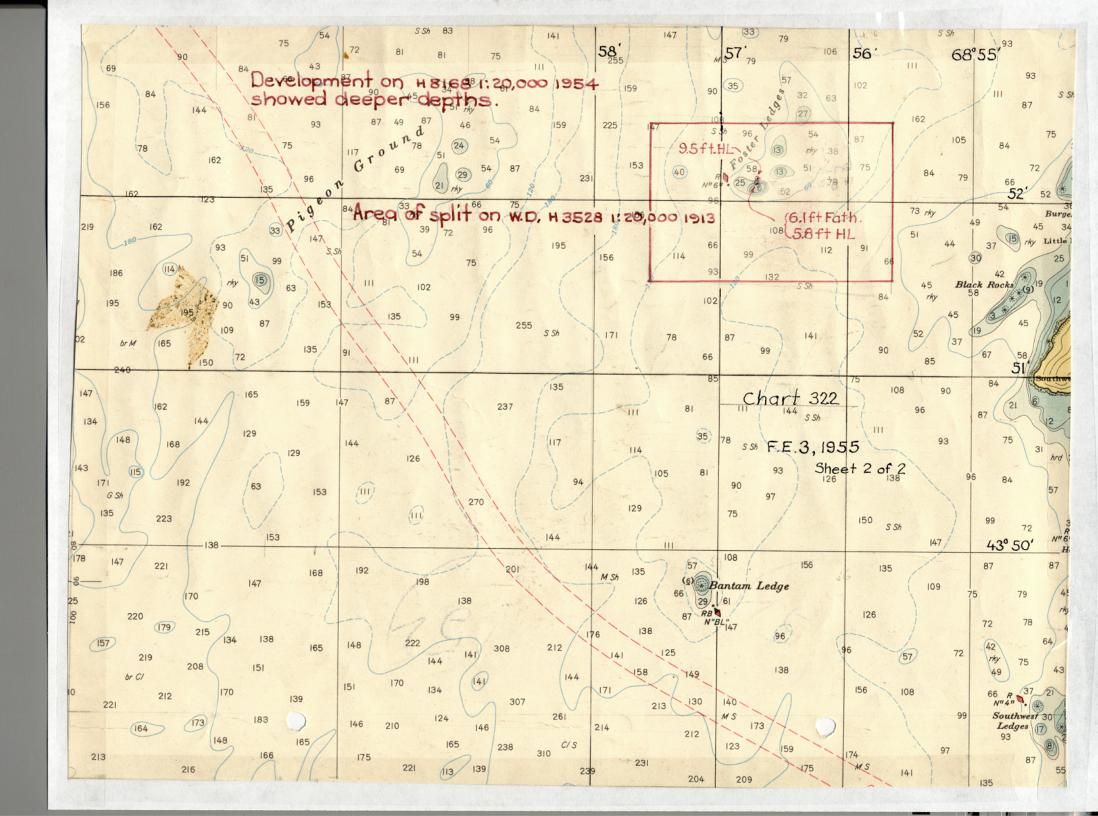
C.

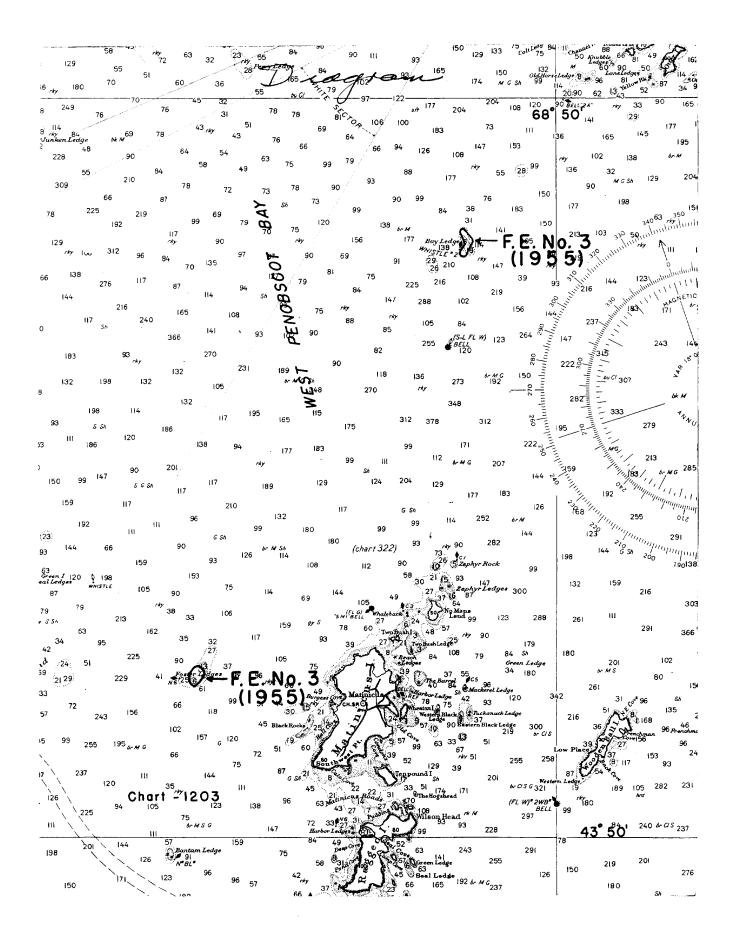
5. The attached correspondence adequately covers all matters pertaining to this examination. No further discussion is considered necessary.

Reviewed by: I. M. Zeskind 5-1-61

Inspected by: R. H. Carstens







NAUTICAL CHARTS BRANCH

SURVEY NO. <u>F.E. No.</u> 3 (1955)

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
9-14-55	322	R.K. ele Lander	Before After Verification and Review
8-17-56	1203	L.S.S.	Before After Verification and Review no correction
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M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.